ACARD ARS-2030PC
USB Card Reader to 3 IDE ODD Copy Controller

User's Manual
Version: 1.1

Attention:
Wait over 5 seconds to power on after shutdown to prevent the abnormal operation of the system.

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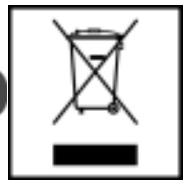
ACARD TECHNOLOGY

WEEE Statement



WEEE Statement

English

In order to cope with the increasing waste electrical and electronic equipment, reduce the use of landfill and incinerator, and prevent the harmful matter of waste equipment from entering the environment, the European Union (EU) has set the Directive on Waste Electrical and Electronic Equipment (WEEE) asking manufacturers to collect, recycle and treat waste electrical and electronic equipment properly. Member nations already established their free of charge recycle systems of WEEE before August 13, 2005. Accordingly, ACARD has to be responsible for recycling all products exported to Germany. You can return your ACARD product that needs recycling to a local collector.

WEEE Erklärung

German

Mit dem Ziel die steigende Menge elektrischer und elektronischer Altgeräte zu bewältigen ohne hierzu unnötig Mülldeponien und Verbrennungsanlagen zu belasten und um die Verschmutzung der Umwelt durch freiwerdende Stoffe aus den Altgeräten zu vermeiden, hat die Europäische Union (EU) die Richtlinie über Elektro- und Elektronik-Altgeräte erlassen. Die Richtlinie verpflichtet Hersteller, elektrische und elektronische Altgeräte umweltgerecht einzusammeln, zu recyceln und zu entsorgen. Die Mitgliedsstaaten der EU haben bereits ihre kostenfreien Recyclesysteme konform der WEEE vor dem 13. August 2005 eingerichtet. Entsprechend der Richtlinie ist ACARD verantwortlich für die umweltgerechte Entsorgung aller nach Deutschland exportierten ACARD Produkte. Sie können Ihr zu entsorgendes ACARD Produkt zu Ihrer örtlichen Sammelstelle bringen.

AEEA verklaring

Dutch

Met het doel de stijgende hoeveelheid afgedankte elektrische en elektronische apparatuur te beheersen zonder hiervoor onnodig stortplaatsen en verbrandingsovens te belasten en om de vervuiling van het milieu door vrijkomende stoffen uit de afgedankte apparatuur te voorkomen, heeft de Europese Unie (EU) de richtlijn betreffende afgedankte elektrische en elektronische apparatuur besloten. Deze richtlijn verplicht fabrikanten afgedankte elektrische en elektronische apparatuur in te zamelen, te recyclen en te verwijderen. De lidstaten van de EU hebben reeds de kosteloze recyclesystemen volgens de AEEA vóór de 13 augustus 2005 ingericht. Conform de richtlijn is ACARD verantwoordelijk voor de verwijdering van alle naar Nederland geëxporteerde ACARD producten. U kunt uw afgedankt ACARD product naar uw locale inzamelplaats brengen.

Elektrik ve Elektronik Madde Atıkları Demeci

Turkish

Elektrik ve electronik madde atıklarının yukselmesiyle basedebilmek ,arazi doldurma ve cop yakma fırını kullanımını azaltmak,atık madde zararlarının cevreye yayılmasını onlemek icin Avrupa Birligi (AB),ureticilerden elektrik ve elektronik madde atıklarını gerektigi gibi toplamalarını,geri donusturmelerini ve kimyasal isleme tabi tutmalarını talep etmek icin Elektrik ve Elektronik Madde Atıkları uzerine bir direktif hazırladı.Topluluk uyeleri,13 Agustos 2005' ten once elektrik ve elektronik madde atıklarının ucretsiz geri donusum sistemlerini coktan olusturmuslardı.Bundan dolayı, ACARD, Almanya'ya ihrac ettigi butun urunlerin geri donusumunden sorumludur.ACARD urunleri geri donusum gerektirirse yerel toplayıcılara geri verebilirsiniz.

WEEE бюлетень

Russian

ЧтобЫ cIIравиться с увеличивающимся ненуӽным электрическим и электронным оборудованием, уменъшите использование закапывания мусора и использования установки для сжигания отходов, препятствуйте вредному выбросам загрязнять окружановки среду, Европейский союз (ЕС) установил Директиву по Ненужному Электрическому и Электронному Оборудованию (WEEE) для того, чтобы изготовителей собрали, перерабатывали и вообще проявили внимание к ненужному электрическому и злектронному оборудованию должным образом. Члены нации установили бесплатную систему и электронному оборудованию должным образом. Члены нации установили бесплатную систему переработки WEEE до 13 августа 2005. Соответственно, ACARD обязан быть ответственным за то, что переработал все продукты, экспортируемые в Германию. Вы можете возвратнть ваш продукт ACARD, который нуждается в рециркуляции местному сборщику.

WEEE Statement

French

Afin de gérer la quantité croissante de déchets électriques et électroniques, de réduire l'utilisation des décharges et des incinérateurs et d'éviter que des déchets nocifs ne polluent l'environnement, l'Union Européenne a publié la directive WEEE sur les déchets électriques et électroniques. Celle-ci spécifie que les fabricants doivent collecter, recycler et traiter l'équipement électronique et électrique usagé. Depuis le 13 août 2005, les pays membres ont mis en place un système de recyclage gratuit selon le WEEE,.
De ce fait, Acard est responsable du recyclage de tous les produits exportés vers l'Allemagne. Vous pouvez mettre au rebut votre équipement ACARD usagé dans votre centre local de recyclage.
Pour plus d'informations sur les lieux de mise au rebut des équipements usagés destinés au recyclage, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

RAEE

Spanish

Con la finalidad de reducir el incremento de residuos eléctricos y de material electrónico, reduciendo el uso de los vertederos e incineradoras y prevenir el preocupante aumento del contacto de estos residuos con el medio ambiente. Por este motivo la Unión Europea ha fijado la Directiva de Residuos de Aparatos Eléctricos y Electrónicos (RAEE) solicitando a los fabricantes la recolección, reciclaje y tratamiento de ests residuos correctamente. Los paises miembros ya han establecido su sistema de reciclaje gratuito de RAEE antes del 13 de Agosto del 2005. Por este motivo ACARD es el responsable del reciclaje de todos los productos exportados a Alemania. Usted puede devolver su producto Acard a un punto de recogida local cuando desee reciclarlo.

Dichiarazione WEEE

Italian

Per far fronte all'aumento dei residui delle apparecchiature elettriche ed elettroniche, ridurre l'uso di materiale di riporto e degli inceneritori, ed impedire che il materiale nocivo delle apparecchiature residue entri a contatto con l'ambiente, l' Unione Europea (UE) ha stabilito le Direttive sui Residui delle apparecchiature Elettriche ed Elettroniche (WEEE) chiedendo ai fornitori di raccogliere correttamente, riciclare e trattare le apparecchiature elettriche ed elettroniche residue. Le nazioni facenti parte dell' Unione Europea hanno già stabilito il loro sistema gratuito di riciclaggio di questo materiale (WEEE) prima del 13 agosto 2005. Di conseguenza, ACARD è responsabile del riciclaggio di tutti i prodotti esportati in Germania. Potete restituire il vostro prodotto acquistato da ACARD che deve essere riciclato da un' azienda specifica locale.

Chapter 1 Introduction

1.1 Overview

ARS-2030PC Card Reader to DVD Duplicator is a standalone copy controller with USB Card Reader supporting high speed DVD burning. It does not need connecting to a computer or require much learning. Simply through the LCD and the button on the panel you can make a DVD via USB Card Reader to burn direct to a DVD quickly. It is designed for the user who is looking for a way of making instant backup memory card data, more efficient and much simple solution, such as personal, SOHO and office users.

1.2 Features

- Standalone USB-to-IDE DVD/CD copy controller
- Totally independent without installing hardware or software
- Supports a built-in 3.5” SATA hard disk drive
- Supports high-speed DVD/CD recording
- Backs up DVD/CD in minutes
- Has a user-friendly interface and shows messages with LCD
- Provides optional functions to extend application
- Firmware update by DVD-ROM

1.3 Specifications

- ACARD ATP865 IDE processor
- ACARD ARC772 IDE/SATA bridge
- 32-bit RISC CPU
- 64MB DDR memory for data buffer
- 3 independent IDE interface channel
- 1 SATA interface channel
- 2 USB interface channel for USB Card Reader
- 2 x 16 LCD screen
- A membrane 6-buttons operation panel
- 512KB of flash memory for boot loader
- 2MB of flash memory for copy code
- Dimension : 150mm (W) x 42mm (H) x 215mm (D)
- Power Source : DC 5V

1.4 System Requirement

- Upright external case 5/6 x 5.25”
- A 300W power supply
- ATA133 cable
- DVD writer x 3
- A hard drive (optional)
- A removable hard drive rack (optional)

AEC-4420P (optional for DVD Copier Mode only)

Chapter 2 Hardware Installation

Before installing the ARS-2030PC, please note that this product comes in three kinds of packages: “Storage Controller Only”, “Complete Backup System” and “Backup System Without DVD/CD Burners”.

2.1 Storage Controller Only

- Open the package and check the product for any damage
- Prepare a DVD/CD drive
- Prepare 3 DVD/CD burners and a flash memory card (Flash Copier Mode)
- Prepare 3 DVD/CD burners (DVD Copier Mode)
- Prepare one 3.5-inch SATA hard drive (optional)

2.2 Complete Backup System

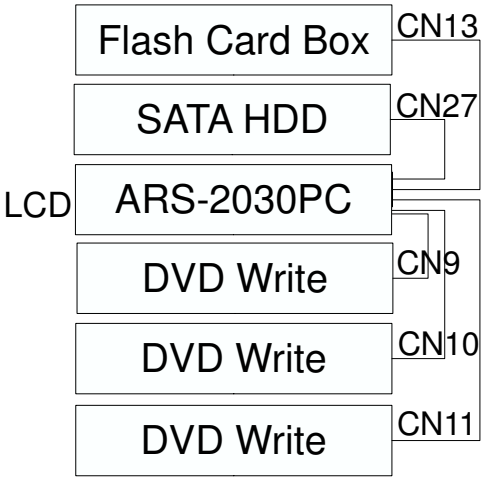
- Open the package and check the product for any damage
- Prepare one 3.5-inch SATA hard drive (optional)
- Prepare a power supply with enough watt ratings.

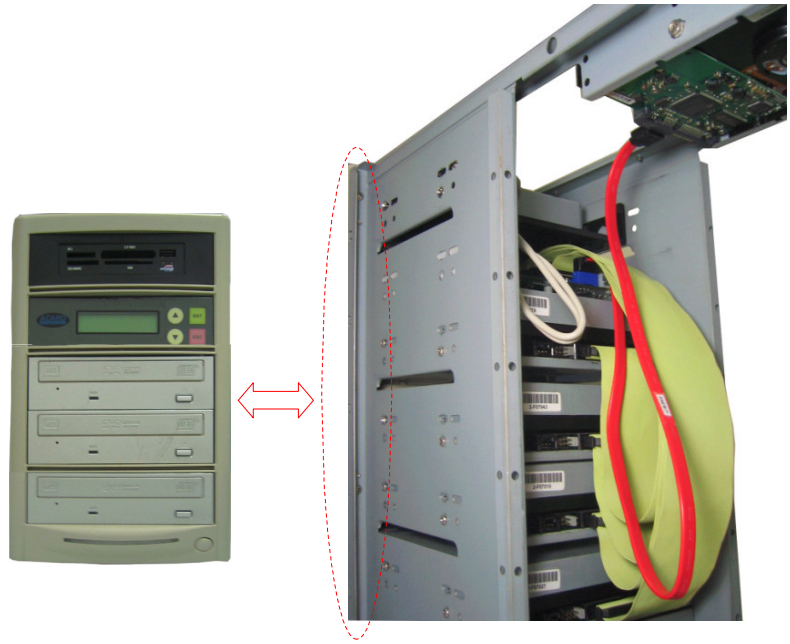
2.3 Backup System Without DVD/CD Burners

- Open the package and check the product for any damage
- Prepare 3 DVD/CD burners and a flash memory card (Flash Copier Mode)
- Prepare 3 DVD/CD burners (DVD Copier Mode)
- Prepare one 3.5-inch SATA hard drive (optional)
- Ensure the power supply has enough watt ratings

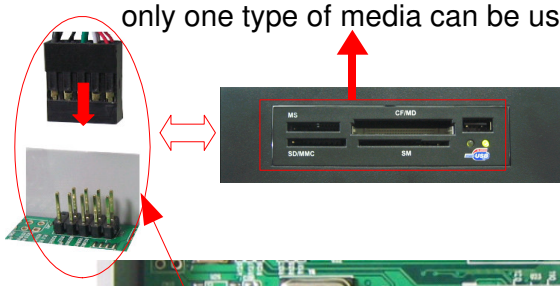
2.4 Installing the ARS-2030PC

The following block diagram and pictures show the connection of the ARS-2030PC to an all-in-one card reader, a SATA hard drive, and 3 DVD burners.

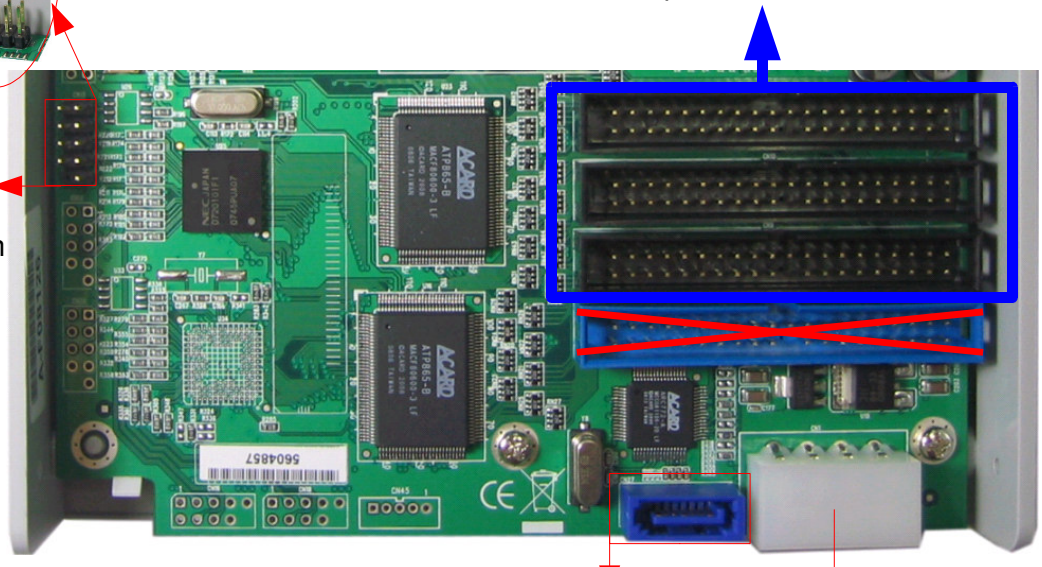




Under the Flash Copier Mode, the system can take MS, CF/MD, SD/MMC, SM and USB flash media as the source of data copying. (Note: For data copying, only one type of media can be used at a time.)



To connect the target DVD burners for Flash Copier Mode and DVD Copier Mode



Mind the notch position

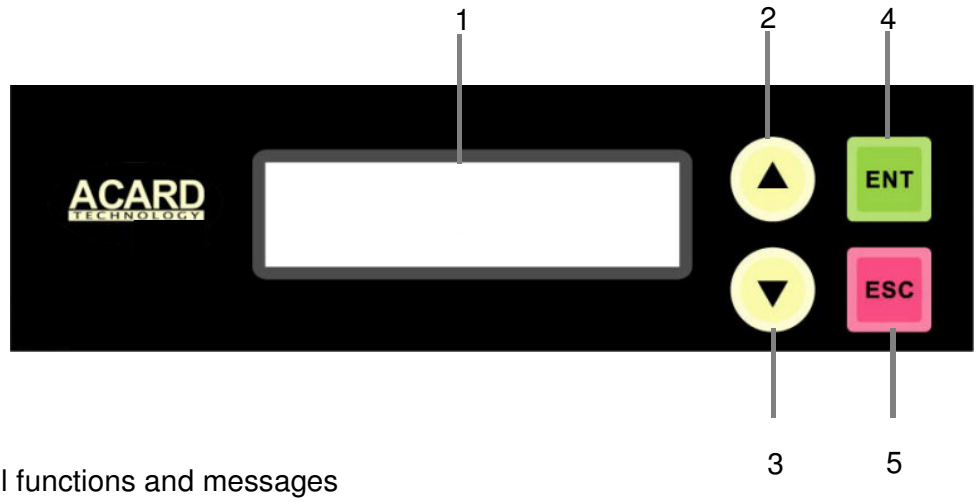
To connect the source SATA hard drive for DVD

Large 4-pin Power

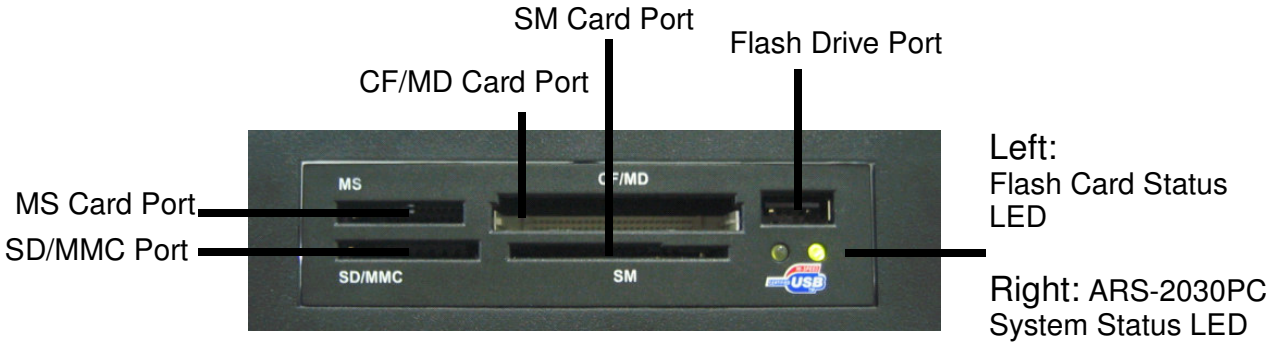
Chapter 3 Basic Operations

3.1 The Keypad and LCD

There are 4 keys and one LCD on the panel of the ARS-2030PC copy controller.



1. Display all functions and messages
2. Scroll up the function list or the menu
3. Scroll down the function list or the menu
4. Execute the selected function
5. Abort the selected function



3.2 Installing the All-in-One Card Reader for Flash Copier Mode

If you want to duplicate flash cards, an all-in-one card reader has to be correctly connected to the CN3 port on the copy controller. The system has to be set as Flash Copier Mode, which is the default setting (The default mode after each startup).

3.3 Installing the hard drive for DVD Copier Mode

An internal hard drive is not required for all system operations. However, the Image function is available only when a hard drive is attached. With the Image function, additional sources – the image files in the hard drive – can be used for DVD/CD copying. The following two sections are brief operational procedures for the systems with and without an internal hard drive.

3.3.1 With an Internal Hard Drive

When a 3.5-inch SATA hard drive is connected to the ARS-2030PC, please follow the operational procedures below:

- You can check if the hard drive is detected by the ARS-2030PC through the device information, function list no. 11-15. If a hard drive is detected and correctly recognized by the ARS-2030PC, the CH0 in the device information will be HDD. Before any operation, the hard drive has to be formatted. You can format the hard drive through the 13-04 function.
- Set the hard drive as the source through the eighth function (Select Source). (The default value is source.)
- Choose a partition for data storage through the ninth function, “Image”.
- If the selected partition is empty, insert a DVD/CD to the DVD-ROM and choose the 9-01 function, “Load”. Press ENT to back up the DVD/CD to the selected partition. Different data should be stored in different partitions.
- Exit the menu by pressing ESC and switch to the first function, “Copy”, by pressing ▲ or ▼. Insert a blank DVD/CD into the DVD burner and press ENT to start copying.
- Upon completion of data copying, the successfully duplicated DVD/CD will be ejected automatically. The default setting is automatic ejection and it can be changed.
- The failed DVD/CD will be held in the DVD burner. The default setting keeps the failed DVD/CD in the burner and it can be changed. To eject the failed DVD/CD, you have to press the eject key on the DVD burner.
- Do not press any key during the copying process. Abrupt interruption may damage the system and the DVD/CD.

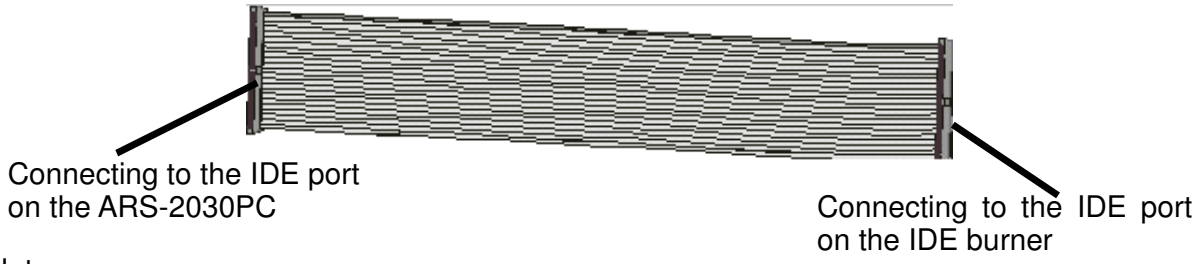
3.3.2 Without an Internal Hard Drive

When a 3.5-inch SATA hard drive is not connected to the ARS-2030PC, please follow the operational procedures below:

- Insert a source DVD/CD into the DVD burner.
- Switch the first function, “Copy” by pressing ▲ or ▼. Insert a blank DVD/CD into the DVD burner and press ENT to start copying.
- Upon completion of data copying, the successfully duplicated DVD/CD will be ejected automatically. The default setting is automatic ejection and it can be changed.
- The failed DVD/CD will be held in the DVD burner. The default setting keeps the failed DVD/CD in the burner and it can be changed. To eject the failed DVD/CD, you have to press the eject key on the DVD burner.
- Before installing any hardware, please check the SATA cable first.

An SATA hard drive is directly connected to the SATA port on the ARS-2030PC with an SATA cable.

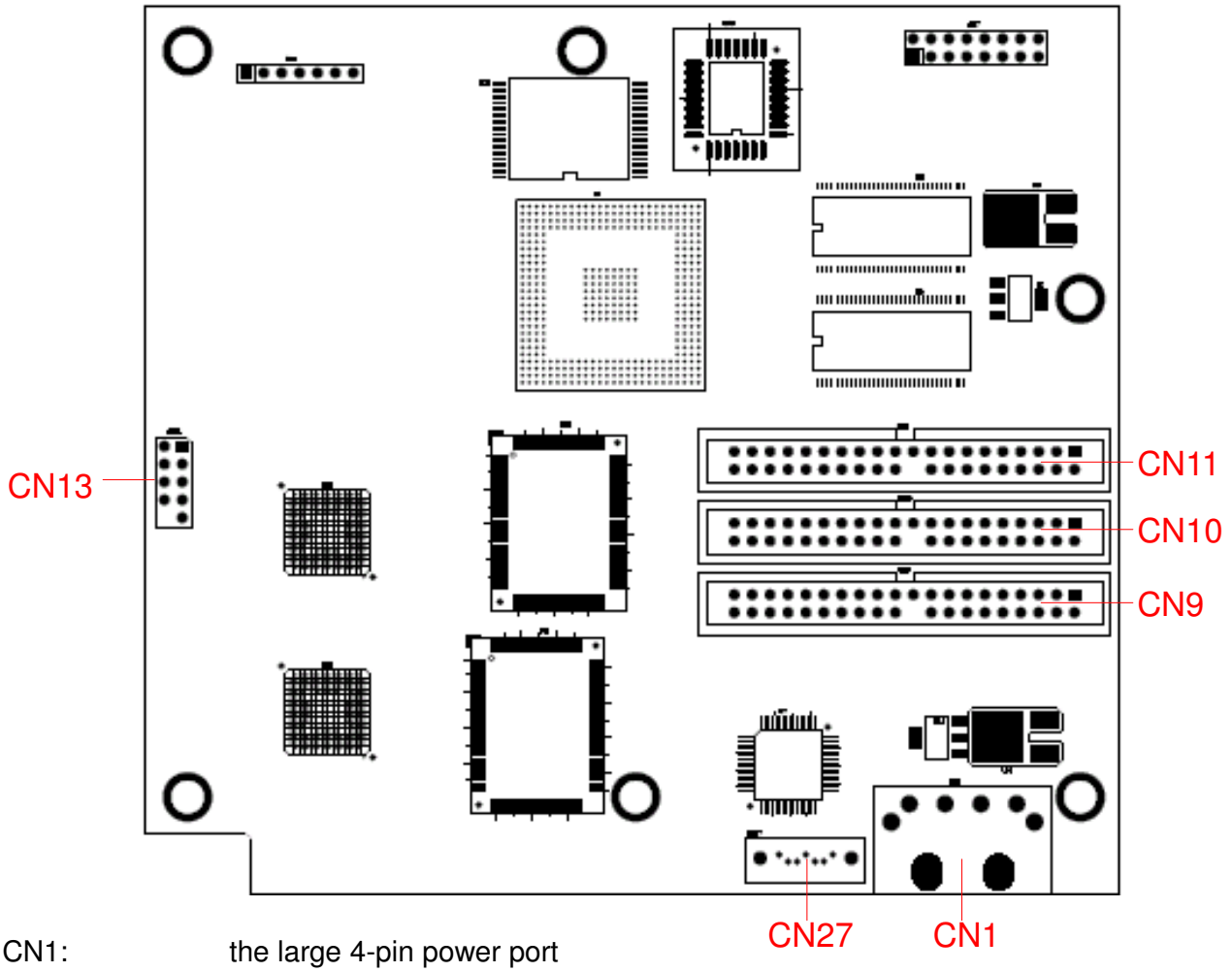
An IDE burner is directly connected to the IDE port on the ARS-2030PC with an IDE cable.



Note:
When the SATA connector with a metal latch is inserted to the controller, it will give a clear metal snapping sound, indicating that the connector is firmly connected to the socket. To remove the connector, please press the metal latch first before pulling out the SATA cable. (Do not pull the cable out directly by force.)

Chapter 4 The PCB Layouts

The PCB layout of the ARS-2030PC is shown below:



1. CN1: the large 4-pin power port
2. CN9 – CN11: The target DVD/CD burner connector (Flash Copier Mode)
3. CN13: The USB data cable connector
4. CN27: The source SATA hard drive connector (DVD Copier Mode)

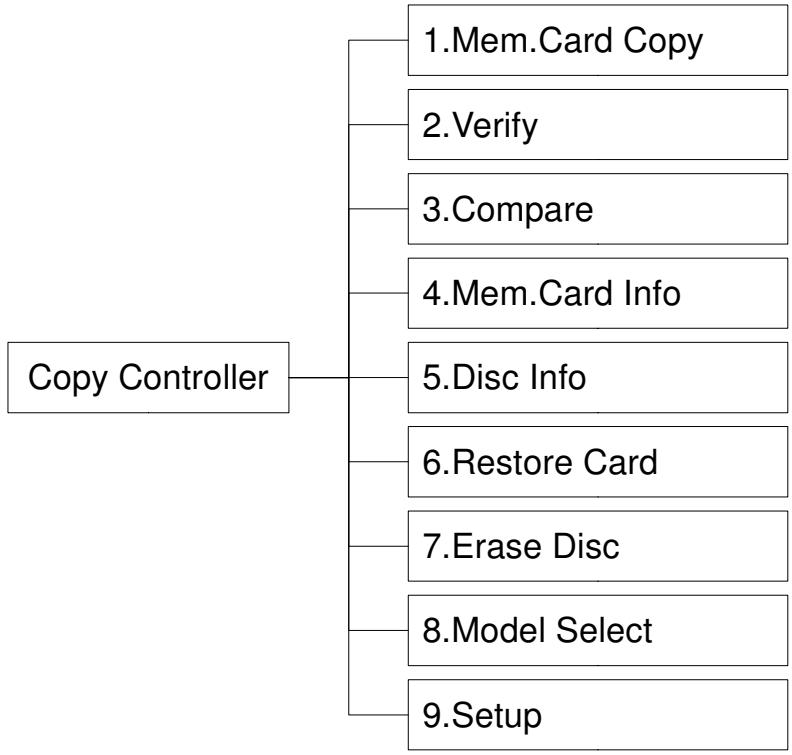
Note:
The CN13 connector has a missing-ping alignment setup. Please align the pins correctly before inserting the connector. Do not insert the connector by force.

Chapter 5 Operational Functions

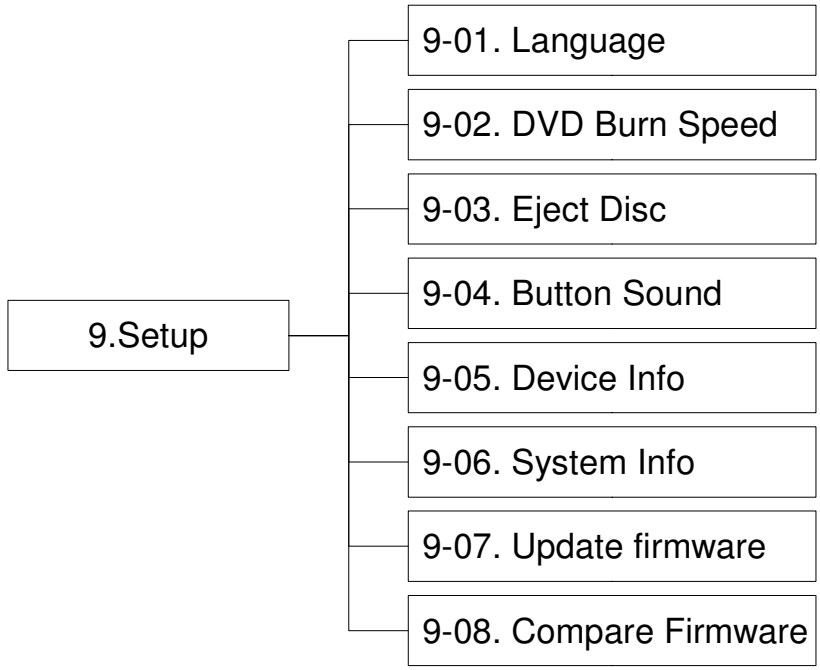
The ARS-2030PC has two operational modes: DVD Copier and Flash Copier (The default setting is Flash Copier Mode.). Users can select the operational mode through the “Model Select” function.

5.1 Flash Copier Mode

The copy controller has 9 functions in total, 8 sub-functions under the ninth function.
These functions are listed in the following figure:



The ninth function has 8 sub-functions.



5.1.1 Mem. Card Copy

The “Mem. Card Copy” function copies the data of the source flash media directly to a blank DVD/CD. Before copying, please make certain that the source flash media is inserted into the correct slot on the card reader. Check the file size of the flash media and choose a proper DVD or CD.

When the source has more data than the capacity of the target disc, the system automatically splits the data. However, if the data is an inseparable data block, the copying operation will be aborted. In this case, please use a target disc with larger capacity than the source.
Choose the first function, “Copy”. Insert the source media into the correct slot on the card reader and a blank DVD/CD into the DVD burner. You may use a rewritable DVD with existing data. All the existing data on that rewritable DVD will be erased.

```
1.Mem. Card Copy
```

After the system detects the flash media and the target DVD, press ENT to start copying. The following message will be displayed on the LCD.

```
Copying      28%
 62.00MB   00:45
```

If the target disc has a smaller capacity than the source, you will be prompted, when the above copying process is completed, to insert a new blank target disc to continue the copying process until the source is fully duplicated. The following message will be displayed on the LCD.

```
Change next disk
and press ENTER
```

Insert a blank CD/DVD and press ENT when you see the above message on the LCD. Then, the following message will be displayed on the LCD.

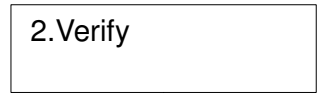
```
  Copy next disk
  Please wait ...
```

After the source is fully duplicated, the following message will be displayed on the LCD. The data volume and the copy time in the figure decrease while the completed percentage increases. Upon completion of data copying, the following message will be displayed on the LCD. The successfully duplicated DVD will be ejected automatically.

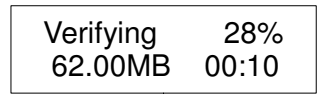
```
Copy  to  DVD
OK:03    SKIP:  0
```

5.1.2 Verify

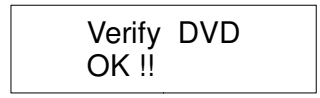
The “Verify” function verifies the duplicated DVD. Choose the second function, “Verify”.



Press ENT to start data verification. The following verification information will be displayed on the LCD.

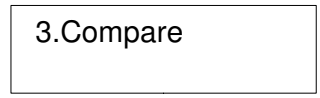


Upon completion of data verification, the following message will be displayed on the LCD.

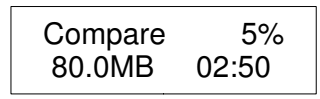


5.1.3 Compare

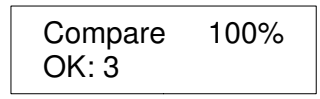
The “Compare” function compares the data in the source flash media with that in the target DVD after the copying operation. Choose the third function, “Compare”. Insert the source flash media into the proper slot on the card reader and the target DVD into the DVD burner.



Press ENT to start comparing data. The following message of data comparing will be shown on the LCD.

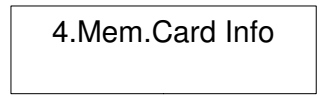


Upon completion of comparing data, the following message will be displayed on the LCD.

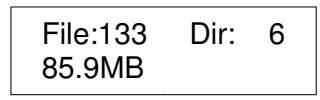


5.1.4 Mem. Card Info

The “Mem. Card Info” shows the basic information of the source flash media.
Choose the fourth function, “Mem. Card Info”. Insert the source flash media into the proper slot on the card reader.

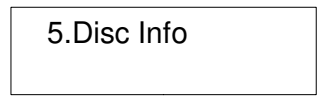


Press ENT and the following menu will be shown on the LCD.

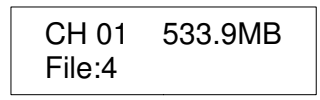


5.1.5 Disc Info

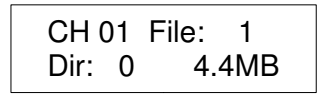
The “Disc Info” shows the basic information of the target DVD.
Choose the fifth function, “Disc Info”. Insert the target DVD into the DVD burner.



Press ENT and the following disc information will be shown on the LCD.



You can browse the disc information of the different target discs with the buttons ▲ and ▼.

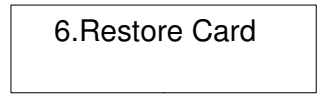


When the system is displayed the disc information of a certain target disc, that DVD drive will be locked. On the LCD, CH is for the channel ID, File for the file numbers, and Dir for the directory numbers. The total data size of the disc is displayed in the bottom of the message.

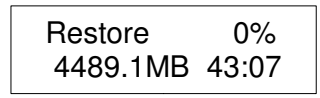
5.1.6 Restore Card

The “Restore Card” function restored the data on the target disc to the flash media. Those restored data will be appended to the flash media as long as it has free space.

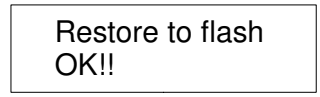
Choose the sixth function, “Restore Card”. Insert a flash media with enough free space into the card reader and the target disc with restoring data into the DVD burner.



Press ENT to start restoring data. The following disc information will be displayed on the LCD.

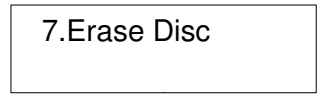


The completed percentage increases while the data volume and the copy time decrease. Upon completion of data restoring, the following message will be displayed on the LCD.

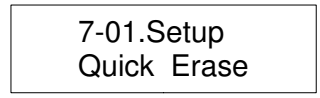


5.1.7 Erase Disc

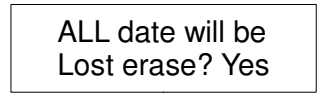
The “Erase Disc” function erases data on the rewritable disc in the target burner.
Choose the seventh function, “Erase Disc”. Insert the target rewritable disc in the DVD burner.



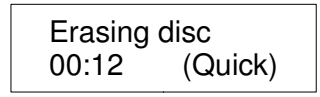
Press ENT to enter the following menu. Select “Quick Erase” or “Full Erase” with the buttons ▲ and ▼. This function clears the data on the rewritable DVD. “Full Erase” takes longer than “Quick Erase”.



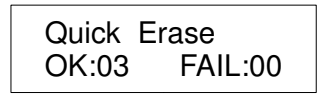
Press ENT to enter the following menu.



Press ENT to enter the following menu and start “Quick Erase”.



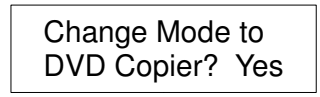
Upon completion of data erasing, the following message will be displayed on the LCD.



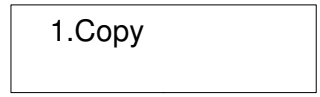
5.1.8 Model Select

The function “Model Select” sets the operational mode of the copy controller. The 2030PC has two operational modes: DVD Copier and Flash Copier (The default mode is Flash Copier.).

Press ENT to enter the following menu. Choose “Yes” to switch to the DVD Copier mode.



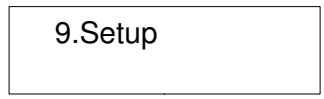
Press ENT and the system is now in the DVD Copier Mode. The following menu will be shown on the LCD.



5.1.9 Setup

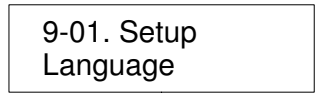
The “Setup” function changes the default settings. Once the settings are changed, they have to be saved by pressing ENT. However, the default settings are recommended for the best performances. This function has 8 sub functions, including: Language, DVD Burn Speed, Eject Disc, Button Sound, Device Info, System Info, Update Firmware, Compare Firmware. Please refer to the figure on Page 13 for detailed information.

Choose the ninth function, “Setup” as shown in the following figure.

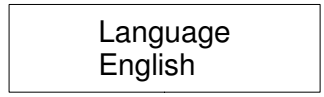


5.1.9.1 Language

Now, press ENT to enter the following menu. This function can specify the language of the LCD messages.



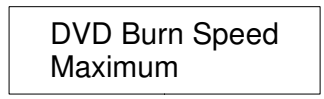
Press ENT to enter the following menu. The default setting is English. You can change the display language to Spanish, Japanese, Traditional Chinese and Simplified Chinese.



5.1.9.2 DVD Burn Speed

Now, press ESC and ▼ to enter the following menu. This function controls the burning speed of the DVD burner.

Press ENT to enter the following menu. The default value is Maximum. You can change the burning speed to 20X, 18X, 16X, 12X, 8X, 6X, 4X, 2.4X, 2X and 1X, depending on your need.



5.1.9.3 Eject Disc

Now, press ESC and ▼ to enter the following menu. This function has 3 options: Eject Good Only, Eject All Disc and Do Not Eject. When the “Eject Good Only” option is selected, the system automatically ejects only those successfully duplicated discs. When the “Eject All Disc” option is selected, the system ejects all discs, be it successful or failed. When the “Eject Good Only” option is selected, the finished disc has to be ejected manually.

```
9-03.Setup
Eject Disc
```

Press ENT to enter the following menu. The default setting is “Eject Good Only”. Choose “Eject All Disc” or “Do Not Eject” with the ▼ button.

```
Eject Disc
Eject Good Only
```

5.1.9.4 Button Sound

Now, press ESC and ▼ to enter the following menu. This function controls the sound of the button when it is pressed.

```
9-04.Setup
Button Sound
```

Press ENT to enter the following menu. The default setting is “On”. You can change it to “Off” by pressing ▼.

```
Button Sound
On
```

5.1.9.5 Device Info

Now, press ESC and ▼ to enter the following menu. This function shows the information of the DVD-ROM and all the DVD burners connected to the controller.

```
9-05.Setup
Device Info
```

Press ENT to enter the following menu.

```
00 IDE0 Slave
S-MULTI:PIONEER
```

Press ENT to enter the following menu.

```
DVD-RW DVR-112
1.24
```

5.1.9.6 System Info

Now, press ESC and ▼ to enter the following menu. This function shows the system information.

9-06. Setup System Info

Press ENT to enter the following menu.

DVD/Flash Copier 2030PC ver:1.04U

Press ENT to enter the following menu.

Fujitsu:29LV160B 2007/12/28 ACARD

Press ESC to exit the menu when you finish.

5.1.9.7 Update Firmware

Now, press ESC and ▼ to enter the following menu. Burn the firmware onto the disc, insert the disc into the burner and close the disc tray. You can download the firmware at www.acard.com.

9-07.Setup Update firmware

Press ENT and follow the prompts to update the firmware. The “No F/W File” message means that there is no valid firmware file on the source disc. You have to download the proper firmware and burn it onto a disc to update the firmware. Updating the firmware may damage your system.

Note:
Do not turn off the power during firmware updating. Otherwise, the system may be damaged

5.1.9.8 Compare Firmware

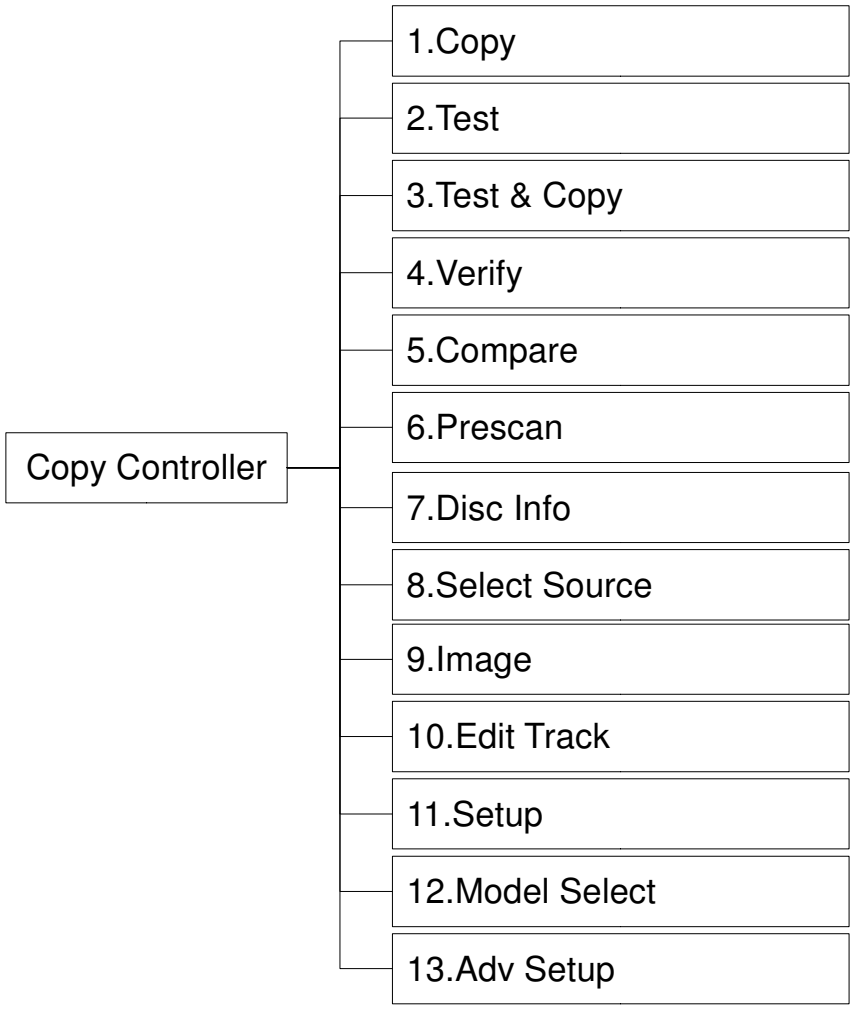
Now, press ESC and ▼ to enter the following menu. This function compares the current version of firmware and the newly download firmware. It verifies whether the download version is the latest

9-08.Setup Compare Firmware

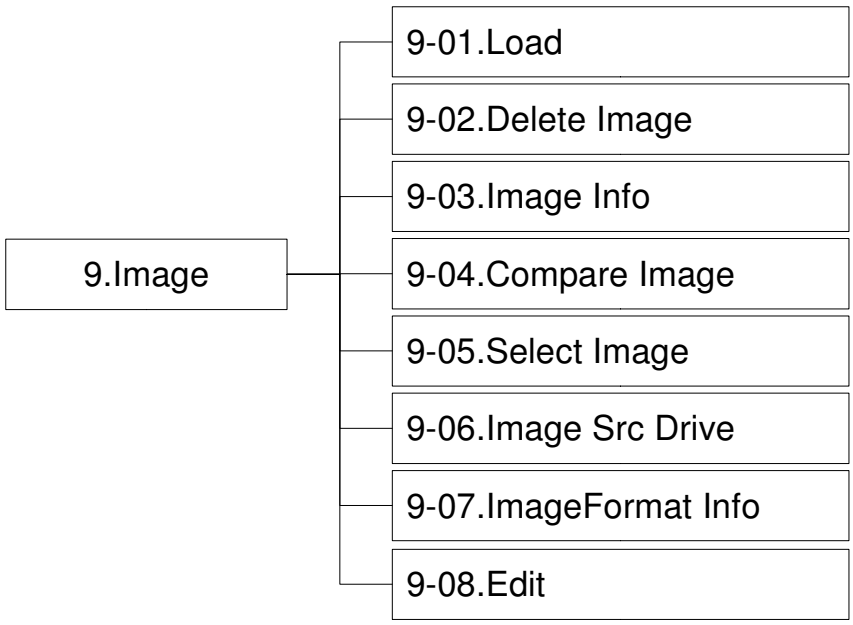
5.2 DVD Copier Mode

This mode uses the hard drive as the default source for data copying. Here, as an introductory example, we use one of the burners as the copying source.
(Note: To use the hard drive as the source, you have to load the data on the disc to some partition of the hard drive first. Next, you should carry out the HDD to DVD/CD copying, i.e. 1 to 3. If you use one of the burners as the copying source, you should perform the 1-to-2 copying operation.)

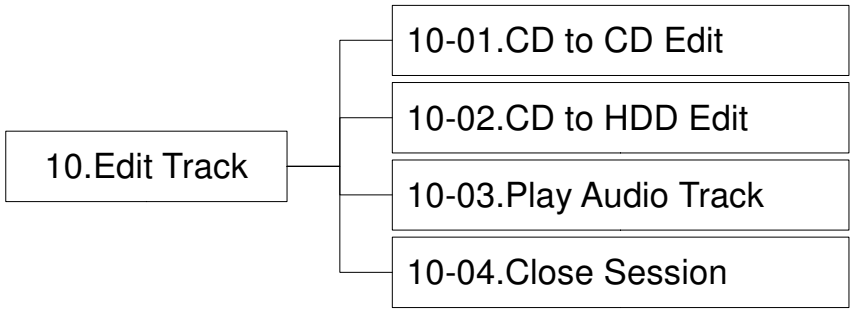
The copy controller has 13 functions in total, 7 sub-functions under the ninth function, 4 sub-functions under the tenth function, 21 sub-functions under the eleventh function and 18 sub-functions under the twelfth function. These functions are listed below.



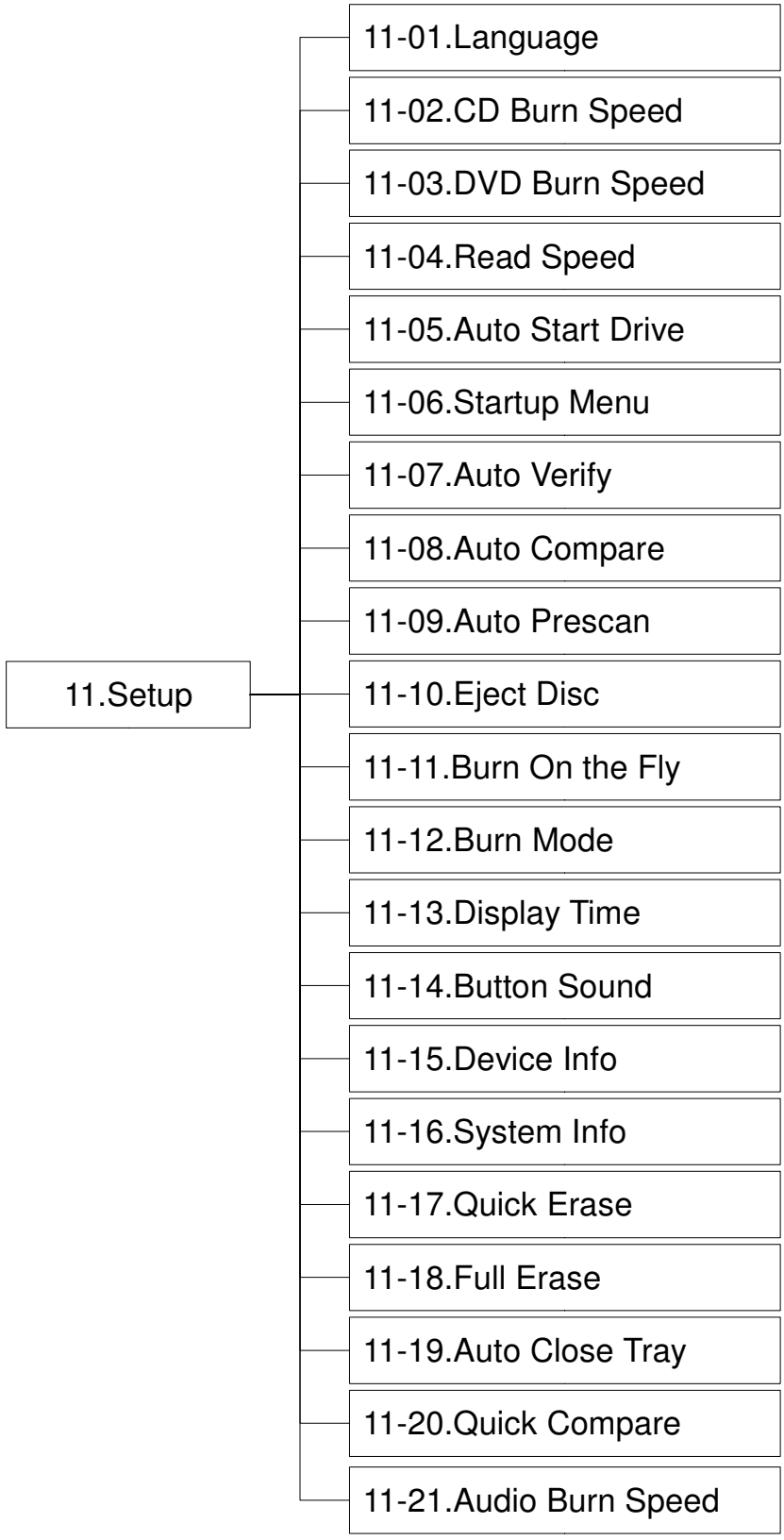
The ninth function has 8 sub-functions.



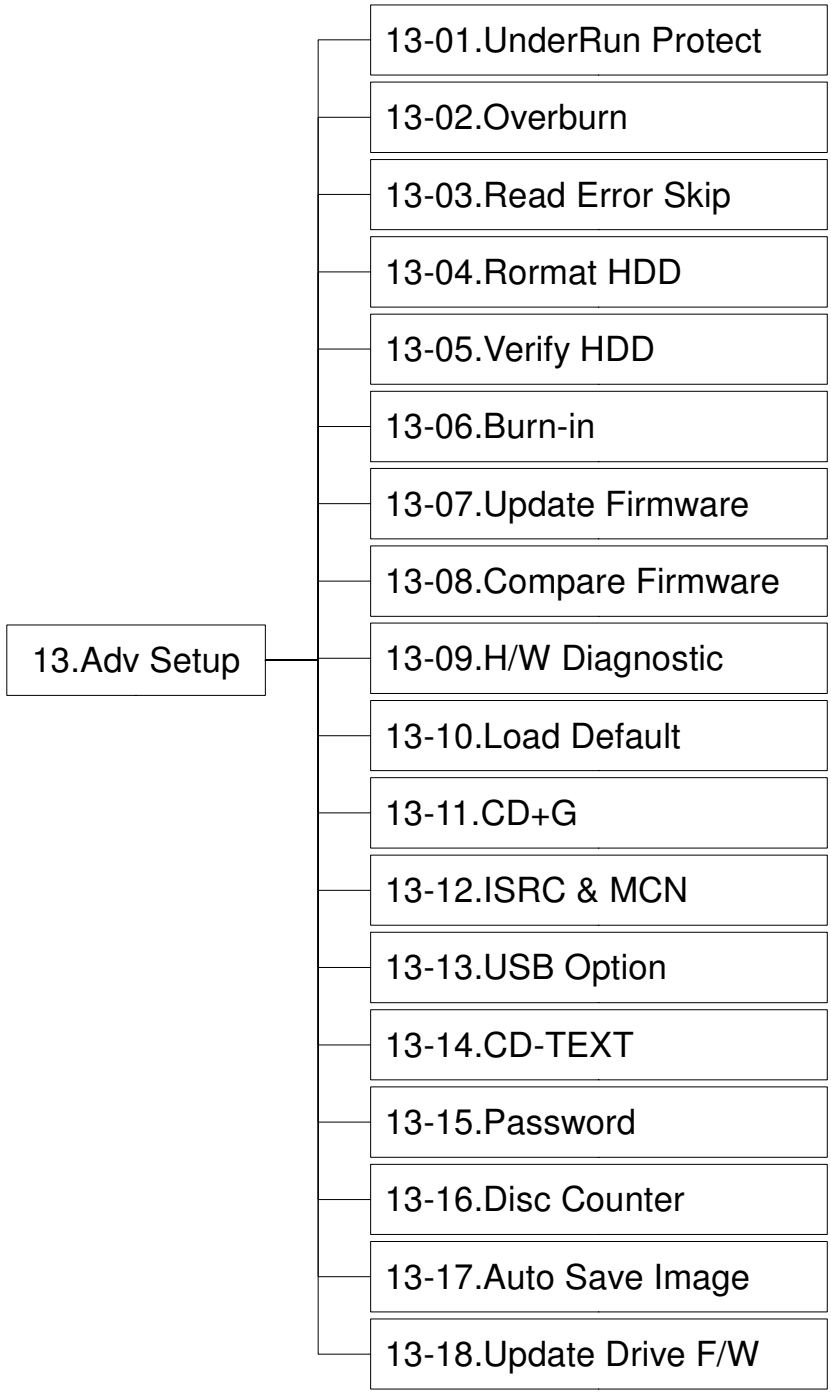
The tenth function has 4 sub-functions.



The eleventh function has 21 sub-functions.



The thirteenth function has 18 sub-functions.



Among the 11 functions, Function 10 Edit Track is designed exclusively for editing a collection of favorite songs from CDs. During operation if you don't understand an LCD message, see Appendix A .

5.2.1 Copy

Function 1 Copy is copy functions allows instant copy of source (original disc/image) to the target drives (burners). Before copying be sure that the source DVD is placed into DVD-ROM, or there are data in a certain HDD partition if you have installed a hard drive. If you are not so sure of real copying, use Function 2 Test to simulate first.

Select function 1. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. A rewriteable DVD containing old data is also usable, but the old data will be automatically erased.

1. Copy

After the DVD-ROM and DVD writers detect DVDs, press **ENT** to start copying. LCD will show the copying information as follows.

Copying-DVD	0%
4213.4MB	7:30

When copying is in progress, MB and time will decrease while the percentage of completion will increase. "MB" means the size of data that you want to copy.

When copying comes to an end, LCD will show the results as follows. The passed DVDs will eject automatically.

1. Copy OK: 03

5.2.2 Test

Function 2 Test is simulation of duplication function, no data will be written to the media (CD-R/DVD-R).

Select function 2. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. Only a DVD-R disc supports this function.

2. Test

Press **ENT** to start simulation. If you use DVD rewriteable discs that contain data, the old data will be quickly erased before simulation as shown below.

Erasing disc

LCD will show the testing information as follows.

When the test comes to an end, LCD will show the results as follows.

Stopping the test halfway does not affect the DVDs, but if the DVD-rewriteable discs contain important data, they may be destroyed.

5.2.3 Test & Copy

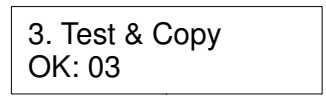
Function 3 Test & Copy is to test first and then copy actually.

Select function 3. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers.

Press **ENT** to start simulation. LCD will show the testing information as follows.

When the test finishes, actual copying will begin as shown below.

When the whole process finishes, LCD will show the results as follows.

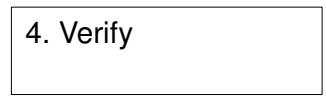


Note that those discs that have passed the test will be copied right away while those that haven't won't be.

5.2.4 Verify

Function 4 Verify is to verify the data burned on CD/DVDs.

Select function 4.



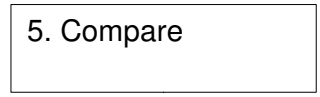
Press **ENT** to verify. LCD will show the verification information as follows.

When verification comes to an end, LCD will show the results as follows.

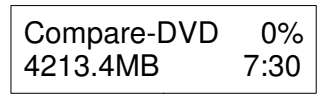
5.2.5 Compare

Function 5 Compare is to make a comparison between the source DVD and the target DVDs after copying.

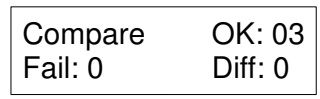
Select function 5. Put the source DVD into DVD-ROM and the target DVDs into DVD writers.



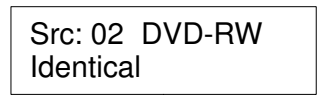
Press **ENT** to compare. LCD will show the comparison information as follows.



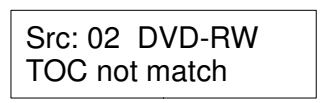
When comparison comes to an end, LCD will show the results as follows.



Press **ENT** to see the details of source 1 as shown below.



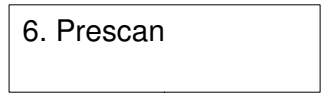
If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source 1 and those of source 2 do not match as follows.



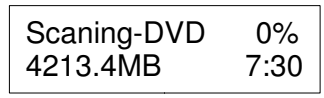
5.2.6 Prescan

Function 6 Prescan is to scan if the source DVD can be read correctly, and by the way to test the reading speed.

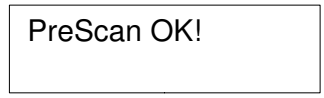
Select function 6. Put the source DVD into DVD-ROM.



Press **ENT** to prescan. LCD will show the scanning information as follows.



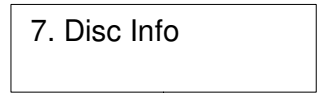
When scanning finishes, and the source DVD can be read correctly, LCD will show the results as follows.



5.2.7 Disc Info

Function 7 Disc Info is to generate a simple report of the source.

Select function 7. Put the source DVD into DVD-ROM.

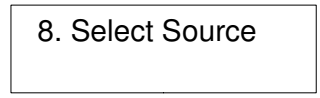


Press **ENT**, and LCD will show the DVD information as follows.

5.2.8 Select Source

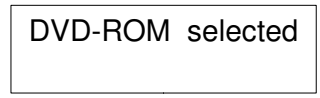
Function 8 Select Source is to identify and assign source drives.

Select function 8.



Press **ENT**, and then press ▲ ▼ to select the source as shown below.

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message as follows.

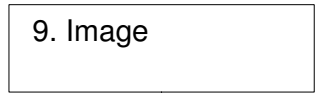


Suppose you select HDD as the source and try to copy from one of its partitions, but the partition contains no data, an error message will appear on LCD. At this moment, you can switch to another partition that contains data, or use function 9 Image to load the data into the chosen partition first.

5.2.9 Image

Function 9 Image is valid only when you have installed a hard disk. This function includes 7 subfunctions: Load, Delete Image, Image Info, Compare Image, Select Image, Select Src Drive, and Image Format Info. The loaded data is called an image file. Refer to page 24 for the menu.

Select function 9.

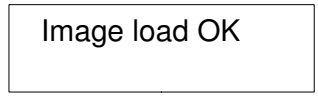


5.2.9.1 Load

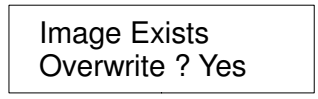
Now press **ENT**, and you will enter the following figure. Here the function Load is to let you load data from DVD-ROM or any one of the DVD writers into the current partition of the hard disk. “P:A” means partition A.

Press **ENT** to load. LCD will show the loading information as follows.

After the image file is successfully loaded, LCD will show the results as follows.



If there is an image file existing in the current partition, the system will ask you whether to overwrite it or not. Please use ▲ ▼ to confirm Yes or No.



5.2.9.2 Delete Image

If you want to delete an image file stored in a particular partition, you can use the function Delete Image to do so. First, select the function by pressing ▼.

The system will ask if you are sure to delete. Use ▲ ▼ to confirm Yes or No.

Delete Image ? Yes A: Untitled!!

After the image file is deleted, LCD will show the results as follows.

Partition A: Image is deleted

5.2.9.3 Image Info

This function is to show the basic information of an image file stored in a particular partition. First, select the function by pressing ▼.

9-03. Image P:A Image Info

Press **ENT**, and LCD will show the information of the image file as follows.

Img Type:DVD+R Capacity: 4213.4MB

5.2.9.4 Compare Image

This function is to compare the contents of the source DVD and those of the image file in the partition. First, select the function by pressing ▼.

9-04. Image P:A Compare Image

Press **ENT**, and LCD will show the information of the image file as follows.

Com-A-DVD 0% 4213.4MB 7:30

When comparison comes to an end, LCD will show the results as follows.

Compare OK: 1 Fail: 0 Diff: 0

Press **ENT** to see the details of source as shown below.

Src: 01 SUPER MUL Total: 4213.4MB

Press **ENT** to see the details of target. If the comparison is identical, LCD will show the message as follows.

```
Tgt: 00   HDD   P:A
Identical
```

If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source and those of target do not match as follows.

```
Tgt: 00   HDD   P:A
TOC not match
```

5.2.9.5 Select Image

This function is to select a partition in the hard disk. First, select the function by pressing ▼.

```
9-05. Image     P:A
Select Image
```

After installing a hard disk, your copy controller will format it automatically. Each partition occupies 5GB. The number of partitions is dependent on the hard disk's capacity. The partitions are alphabetically arranged. Select a partition by pressing ▲ ▼ , and LCD will show the message as follows.

```
Select  Partition
A: DVD    4213.4MB
```

After the partition is selected, LCD will show the results as follows.

```
Set  Partition to
A
```

5.2.9.6 Image Src Drive

This function is to select DVD-ROM or any of the DVD writers as the source from which you can load data into a particular partition as an image file.

First, select the function by pressing ▼.

```
9-06. Image     P:A
Image Src Drive
```

Then, use ▲ ▼ to select DVD-ROM or any of the DVD writers as the source.

```
Select Img Src:
01 CH01  S-MUTLI
```

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message as follows.

```
Load image from
Drive  ID-01
```

5.2.9.7 Image Format Info

This function is to see how you have formatted your hard disk. It is related to function 12.4 Format HDD. There are 3 formats for choice: CD, DVD, and DL (Double Layer).

Now press **ESC** and ▼ to enter the following figure.

```
9-07. Image     P:A
Image Format Info
```

Press **ENT** to see the following figure. This figure shows that the hard disk has been formatted as DVD.

```
Image Format Info
Auto
```

5.2.9.8 Edit

This function is to name a certain partition, but only when the partition contains an image file can title editing be valid. First, select the function by pressing ▼.

First, select the function by pressing ▼.

```
9-08. Image     P:A
Edit
```

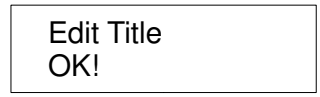
Press **ENT**. A title should be composed of 1 to 13 characters. The character can be A, B, C, etc. or 1, 2, 3, etc. or the combination of both. Use ▲ ▼ to select the number or alphabet. After selecting a desired one, press **ENT**.

```
Edit Title
?
```

After keying in the title, press **ENT** to see the following figure.

```
Edit Sub1 Title
?
```

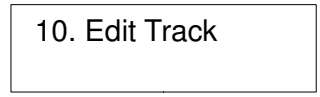
Sub1 Title lets you key in a subtitle 1. You can press **ENT** again to key in a subtitle 2. When title editing is completed, you will see the next figure.



5.2.10 Edit Track (for CD only)

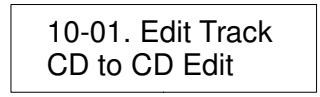
Function 10 Edit Track is exclusively designed for editing a collection of favorite songs from CDs. In other words, it can collect different tracks (songs) on a number of CDs and merge them into a single CD. This function includes 4 subfunctions: CD to CD, CD to HDD, Play Audio Track and Close Session. Refer to page 24 for the menu.

Select function 10.

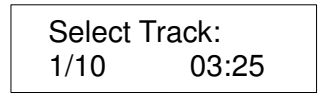


5.2.10.1 CD to CD Edit

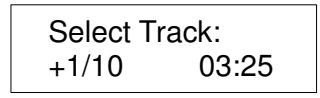
Now press **ENT**, and you will enter the following figure.Here the function CD to CD Edit lets you select a track or more from CD-ROM, and then copy into blank CD-R/RWs.



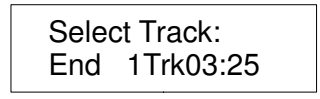
Now press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the length of track.



You can press ▼ to see the second track and so on. Suppose we decide to select the first track, then press **ENT**. A “+” will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.



After selecting, please use ▲ to move to the “End” menu as shown below.



Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
End  edit  disc
and  burn?Yes
```

LCD will show the copying information as follows.

```
Copying-24X  Edit
1/10  ->   1/1
```

“1/1” means the first track of all tracks we have selected, and here we have just selected one track. When copying comes to an end, LCD will show the message as follows.

```
Burn Complete!
OK: 03
```

The system will ask if you want to keep editing. Please use ▲ ▼ to confirm Yes or No as shown below.

```
Continue edit
next Disc?Yes
```

If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.

```
Insert next  disc
```

After inserting the new CD, press **ENT** to edit as before. Suppose we decide to select the second track, then press **ENT**. A “+” will appear beside 2/10 as shown below.

```
Select  Track:
+2/10     04:25
```

After selecting, please use ▲ to move to the “End” menu as shown below.

```
Select  Track:
End  1Trk04:25
```

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
End  edit  disc
and  burn?Yes
```

LCD will show the copying information as follows.

```
Copying-24X  Edit
2/10  ->   2/2
```

“2/2” means the second track of all tracks we have selected, and so far we have selected two tracks from two different CDs. When copying comes to an end, LCD will show the message as follows.

```
Burn Complete!
OK: 03
```

The system will ask if you want to keep editing. Suppose we don’t like to continue, then press ▼ to confirm No.

```
Continue edit
next Disc?No
```

Now press **ENT**. The system will ask if you want to close all CDs’ sessions. Please use ▲ ▼ to confirm Yes or No as shown below.

```
Closing Session
Please wait ---
```

When closing comes to an end, LCD will show the message as follows.

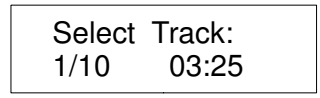
```
Closing Session
OK:03
```

5.2.10.2 CD to HDD Edit

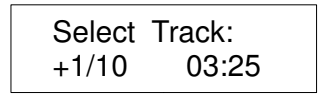
After closing sessions, press **ESC** and ▼ to enter the following figure. Here the function CD to HDD Edit lets you select a track or more from CD-ROM, and then copy into a certain partition of HDD.

```
10-02. Edit Track
CD to HDD Edit
```

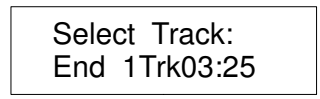
Now press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the playing time.



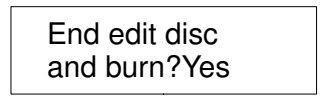
Suppose we decide to select the first track, then press **ENT**. A "+" will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.



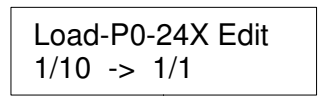
After selecting, please use ▲ to move to the "End" menu as shown below.



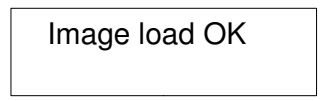
Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.



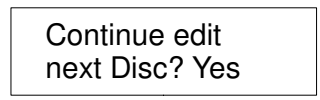
Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.



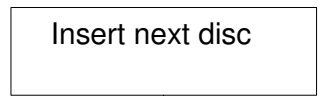
When loading comes to an end, LCD will show the message as follows.



The system will ask if you want to keep editing. Please use ▲ ▼ to confirm Yes or No as shown below.



If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.



After inserting the new CD, press **ENT** to edit as before. Suppose we select the second track, then press **ENT**. A "+" will appear beside 2/10 as shown below.

```
Select  Track:
+2/10      04:25
```

After selecting, please use ▲ to move to the "End" menu as shown below.

```
Select  Track:
End  1Trk04:25
```

Press **ENT** to finish the CD editing, and use s t to confirm Yes or No.

```
End edit disc
and burn?Yes
```

Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.

```
Load-P0-24X Edit
2/10  ->  2/2
```

When loading comes to an end, LCD will show the message as follows.

```
Image load OK
```

The system will ask if you want to keep editing. This time please use ▼ to confirm No as shown below.

```
Continue edit
next Disc? No
```

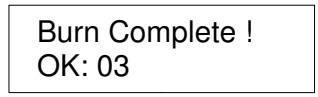
Then, the system will ask if you want to burn from HDD into CD-R/RW or move into a partition. Please use ▲ to confirm Burn as shown below.

```
Burn or Move to
partition? Burn
```

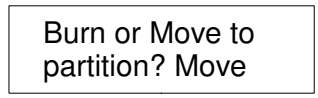
After pressing ▲ , LCD will show the copying information as follows.

```
Copy-P0-24X  0%
1/2   Trk03:25
```

When burning finishes, LCD will show the results as follows.

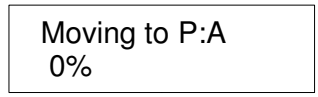


Now press **ESC** to enter the following figure. And press ▼ to move the data from HDD template into a certain partition.

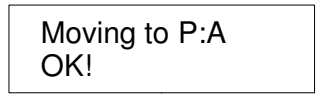


After pressing ▼, you need to select a partition into which the data will be moved. Suppose we select A as shown below.

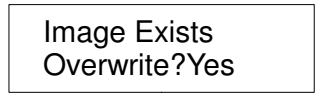
After pressing **ENT**, LCD will show the moving information as follows.



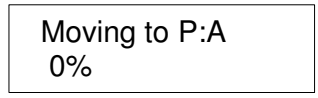
When moving finishes, LCD will show the results as follows.



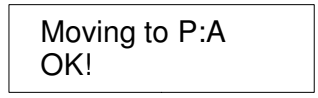
If the chosen partition has contained image data, the system will ask to overwrite or keep the data. Press ▲ to overwrite.



After pressing ▲ , LCD will show the moving information as follows.



When moving finishes, LCD will show the results as follows.



5.2.10.3 Play Audio Track

This function is to make the copy controller act as a music player. You can connect a headphone to the headphone jack on the source, and enjoy the music.

Now press **ESC** and ▼ to select the function.

```
10-03. Edit Track
Play Audio Track
```

Use ▲ ▼ to select the track you want to play.

```
Select Track:
1/10      03:25
```

After selecting and pressing **ENT**, LCD will show the playing information below.

```
Playing Track-1
00:00 / 03:25
```

5.2.10.4 Close Session

This function is to close CDs and let no data written into. After closing, you can put the CDs on any normal player and listen.

Now press **ESC** and ▼ to select the function.

```
10-04. Edit Track
Close Session
```

After pressing **ENT**, the system will ask if you are sure to close.

```
Close all disc's
session? Yes
```

After pressing **ENT**, LCD will show the message as follows.

```
Closing Session
Please wait ---
```

When closing finishes, LCD will show the results as follows.

```
Closing Complete
OK:3          Fail:0
```

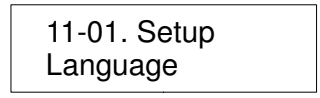
5.2.11 Setup

Function 11 Setup lets you change the default settings. Once you change a setting, remember to press **ENT** to save it. However, it is suggested to use the defaults for the optimal operation. This function includes 21 subfunctions: Language, CD Burn Speed, DVD Burn Speed, Read Speed, Auto Start Drive, Startup Menu, Auto Verify, Auto Compare, Auto Prescan, Eject Disc, Burn On The Fly, Burn Mode, Display Time, Button Sound, Device Info, System Info, Quick Erase, Full Erase, Auto Close Tray, Quick Compare, and Audio Burn Speed. Refer to page 14 for the menu.

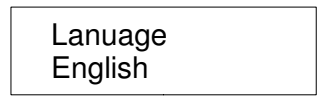
Select function 11.

5.2.11.1 Lanuage

Now press **ENT**, and you will enter the following figure. The function Language lets you select a language in which messages can be shown on LCD.

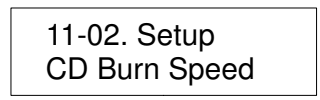


Press **ENT** to enter the following figure. The default is English. Spanish, Japanese, Traditional Chinese and Simplified Chinese are made to order.

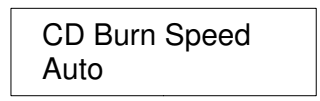


5.2.11.2 CD Burn Speed

Now press **ESC** and ▼ to enter the following figure. This function lets you control the burning speed of CD writers.

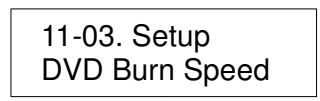


Press **ENT** to enter the following figure. The default is auto.

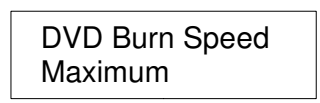


5.2.11.3 DVD Burn Speed

Now press **ESC** and ▼ to enter the following figure. The function DVD Burn Speed lets you control the burning speed of DVD writers.

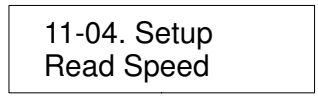


Press **ENT** to enter the following figure. The default is maximum.

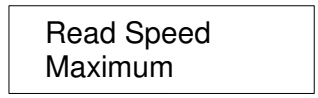


5.2.11.4 Read Speed

Now press **ESC** and ▼ to enter the following figure. The function Read Speed lets you control the reading speed of target CDs.

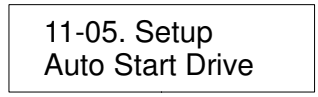


Press **ENT** to enter the following figure. The default is maximum, but there are still other choices: 32X, 16X and 8X.

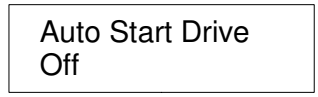


5.2.11.5 Auto Start Drive

Now press **ESC** and ▼ to enter the following figure. Auto Start Drive is to copy or test automatically once you put blank DVDs into the writers.

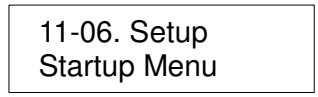


Press **ENT** to enter the following figure. The default is Off. Press t to select 1 (one blank DVD).



5.2.11.6 Startup Menu

Now press **ESC** and ▼ to enter the following figure. Startup Menu lets you select any one of the functions except Adv Setup as the first item appearing on the menu whenever you turn on the copy controller.



Press **ENT** to enter the following figure. The default is Copy. You can certainly select any other function as the first item, but remember to press **ENT** to confirm.

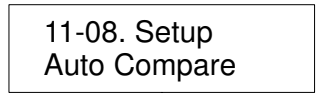
5.2.11.7 Auto Verify

Now press **ESC** and ▼ to enter the following figure. Auto Verify is to verify automatically if the target DVDs can be read after copying.

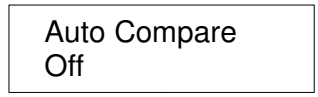
Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

5.2.11.8 Auto Compare

Now press **ESC** and ▼ to enter the following figure. Auto Compare is to compare automatically the source DVD and the target DVDs after copying.

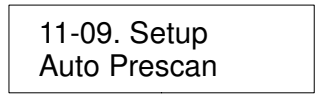


Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

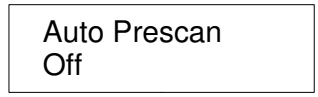


5.2.11.9 Auto Prescan

Now press **ESC** and ▼ to enter the following figure. Auto Prescan is to scan automatically if the source DVD can be read correctly, and by the way to test the reading speed.

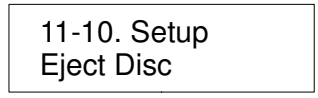


Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.



5.2.11.10 Eject Disc

Now press **ESC** and ▼ to enter the following figure. Eject Disc provides three choices. They are Eject Good Only, Eject All Disc, and Do Not Eject. Eject Good Only means that the DVDs will eject automatically only when they are copied successfully. Eject All Disc means that the DVDs will eject automatically whether they are copied successfully or not. Do Not Eject means that you need to eject the DVDs manually when copying finishes.

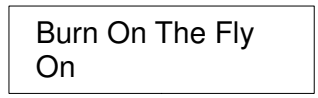


Press **ENT** to enter the following figure. The default is Eject Good Only. Press ▼ to select Eject All Disc or Do Not Eject.

5.2.11.11 Burn On The Fly

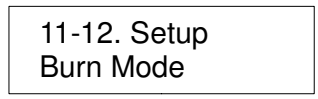
Now press **ESC** and ▼ to enter the following figure. Burn On The Fly lets you control the copying methods. When the setting is On, the data will be copied directly from the source DVD to the target DVDs. When the setting is Off, the data will be loaded into a partition of HDD first, and hence copying will be done.

Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

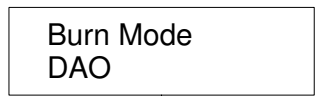


5.2.11.12 Burn Mode

Now press **ESC** to return to Function 11, and then select part 12 Burn Mode as the following figure shows. Burn Mode lets you control the burning modes. There are two modes: DAO (Disc At Once) and TAO (Track At Once). They only supports CD. If the DVD writer doesn't support the mode you have selected, the copy controller will automatically switch to another mode.

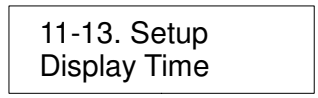


Press **ENT** to enter the next figure. The default is DAO. Press ▼ to select TAO.

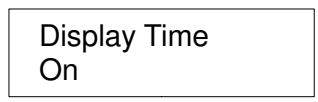


5.2.11.13 Display Time

Now press **ESC** and ▼ to enter the following figure. Display Time is to show the copying time.

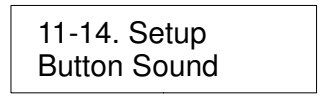


Press **ENT** to enter the next figure. The default is On. Press ▼ to select Off.

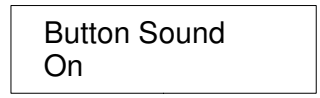


5.2.11.14 Button Sound

Now press **ESC** and ▼ to enter the following figure. Button Sound lets you control the sound of a button when you press it.

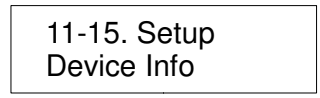


Press **ENT** to enter the next figure. The default is On. Press ▼ to select Off



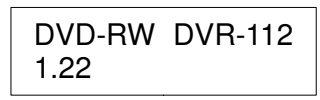
5.2.11.15 Device Info

Now press **ESC** and ▼ to enter the following figure. Device Info shows the information of the DVD-ROM and any of the DVD writers you have installed.



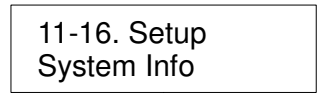
Press **ENT** to enter the next figure.

Press **ENT** to enter the next figure.

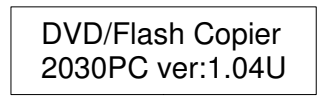


5.2.11.16 System Info

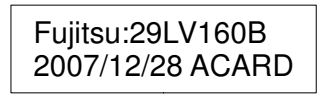
Now press **ESC** and ▼ to enter the following figure. System Info shows the information of the system.



Press **ENT** to enter the next figure.

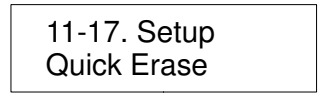


Press **ENT** to enter the next figure.

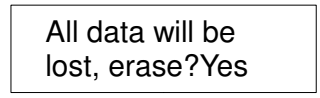


5.2.11.17 Quick Erase

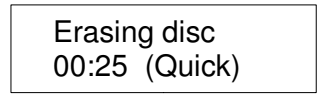
Now press **ESC** and ▼ to enter the following figure. Quick Erase is to erase the data on the DVD rewriteable discs quickly.



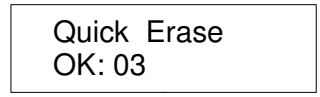
Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.



After confirming Yes and pressing **ENT**, LCD will show the message as follows.

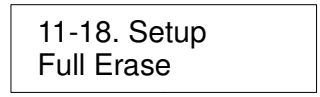


When erasing finishes, LCD will show the results as follows.

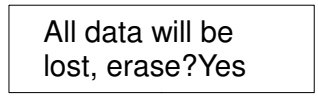


5.2.11.18 Full Erase

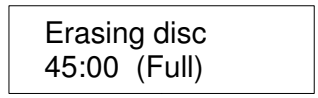
Now press **ESC** and ▼ to enter the following figure. Full Erase is to erase the data on the DVD rewriteable discs completely. Compared with Quick Erase, Full Erase takes longer time to do the job.



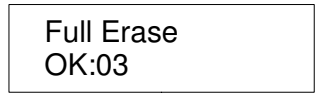
Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.



After confirming Yes and pressing **ENT**, LCD will show the message as follows.

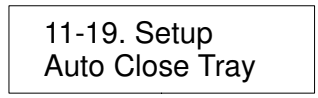


When erasing finishes, LCD will show the results as follows.

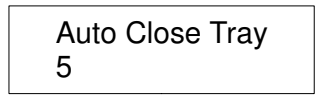


5.2.11.19 Auto Close Tray

Now press **ESC** and ▼ to enter the following figure. Auto Close Tray is to close the writer's tray automatically. It is related to function 11.5 Auto Start Drive. If you haven't set any writer to copy in function 11.5, this function will be invalid.



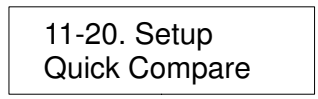
Press **ENT** to see the following figure.



Here 5 means that it takes 5 seconds to close the writer's tray automatically after copying finishes and the tray is ejected. Besides 5 seconds, there are 10, 15, 20, 25, 30, 35, 40, 45, and 50 seconds for choice. If you have set one or all seven writers in function 11.5, and choose 10 seconds here, then one writer's tray or all seven writers' trays will be closed in 10 seconds after copying finishes.

5.2.11.20 Quick Compare

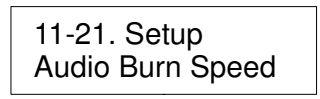
Now press **ESC** and ▼ to enter the following figure. Quick Compare is related to function 5 Compare. It lets you set a certain byte. When the error of a target DVD is beyond the set byte, the comparison between the source DVD and the target DVD will stop. Yet the comparison of the other 6 target DVDs will continue.



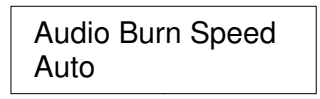
Press **ENT** to see the following figure. The default is Off, but you can press ▼ to choose a certain byte like 1 Byte, 1 KB, 10 KB, 100KB, 1 MB, etc.

5.2.11.21 Audio Burn Speed

Now press **ESC** and ▼ to enter the following figure. Audio Burn Speed lets you control the burning speed of audio CDs.

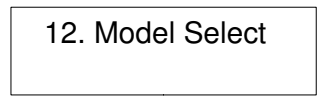


Press **ENT** to see the following figure. The default is auto, but there are maximum, 40X, 32X, 24X, 20X, etc. for choice.

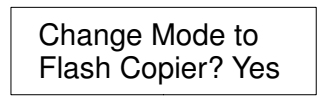


5.2.12 Model Select

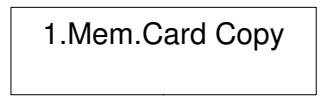
The function “Model Select” sets the operational mode of the copy controller. The 2030PC has two operational modes: DVD Copier and Flash Copier (The default mode is Flash Copier.)



Press ENT to enter the following menu. Choose “Yes” to switch to the Flash Copier mode.



Press ENT and the system is now in the Flash Copier Mode. The following menu will be shown on the LCD.



5.2.13 Adv Setup

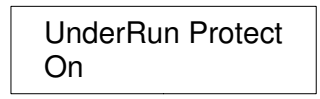
Function 13 Adv Setup lets you change the system configuration. This function includes 20 subfunctions: UnderRun Protect, Overburn, Read Error Skip, Format HDD, Verify HDD, Burn-in, Update Firmware, Compare Firmware, H/W Diagnostic, Load Default, CD+G, ISRC & MCN, USB Option, CD-TEXT, Password, Disc Counter, Auto Save Image, Update Drive F/W, F1 Hot Key Setting and F2 Hot Key Setting. Refer to page 17 for the menu.

Now press **ESC** to return to Function 12. Then, press **ESC** for 2 seconds to enter Function 13 as the following figure shows.

5.2.13.1 UnderRun Protect

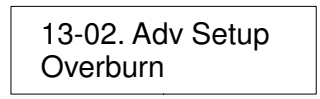
Now if you press **ESC**, you can enter Function 12 as the following figure shows.

UnderRun Protect lets you control On and Off of Buffer Under Run Protection. Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

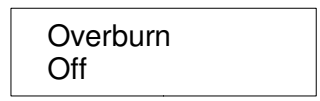


5.2.13.2 Overburn

Now press **ESC** and ▼ to enter the following figure. Overburn lets you decide whether to copy beyond the limit of the media or not.

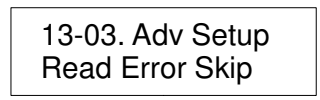


Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On. Overburn may cause a DVD writer to be damaged and data incomplete.

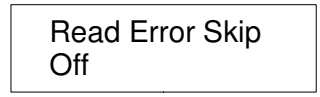


5.2.13.3 Read Error Skip

Now press **ESC** and ▼ to enter the following figure. Read Error Skip is to ignore any error that occurs during copying. Under normal circumstances, when an error occurs during copying, a message will appear on LCD. Yet, you can use Read Error Skip to copy some defective medias.



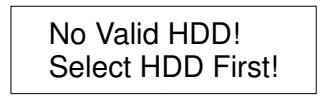
Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.



5.2.13.4 Format HDD

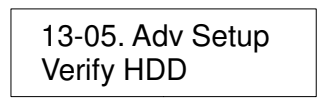
Now press **ESC** and ▼ to enter the following figure. Format HDD is to partition the hard disk. But before formatting, all data on the hard disk will be deleted.

If your copy controller doesn't connect with a hard disk, LCD will show the message as follows.

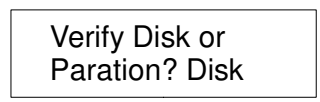


5.2.13.5 Verify HDD

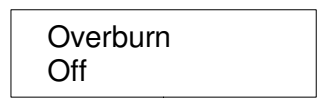
Now press **ESC** to return to Function 13, and then select part 5 Verify HDD as the following figure shows. Verify HDD is to verify if the hard disk or any of its partitions can work well.



Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Disk or Parti.

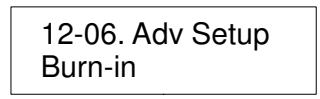


Press **ENT** to verify. After verification LCD will show the results as follows.

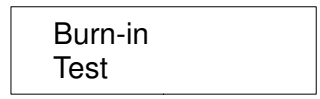


5.2.13.6 Burn-in

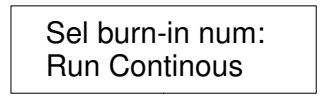
Now press **ESC** and ▼ to enter the following figure. Burn-in is to simulate the copying progress many times. The time can be from 1 to 1000. After each cycle of simulation, the medias on the DVD writers will eject automatically and recede for the next bout of simulation.



Press **ENT** to enter the next figure. Test is simply a simulation.

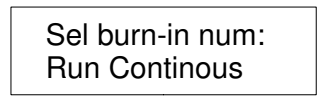


Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.



Press **ESC**, **ENT**, ▼ to select Erase & Copy as the following figure shows. Erase & Copy is to erase and write repeatedly. It is only for media rewriteable discs.

Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.

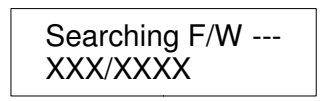


5.2.13.7 Update Firmware

Now press **ESC** and ▼ to enter the following figure. Update Firmware is to update firmware to the latest version. But you should get the version first.

You can get the newest firmware version from ACARD by e-mail, or download it directly from the web site: **http://www.acard.com** Then, unzip the file of .zip and copy it into a CD-RW. If the file is .bin, you don't need to unzip.

After placing the media into the DVD-ROM , press **ENT**. The system will begin searching the new firmware and show the message on LCD as follows after it finds the new firmware. Then press **ENT** to update.

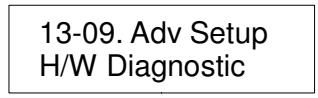


5.2.13.8 Compare Firmware

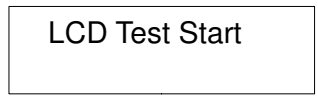
Now press **ESC** and ▼ to enter the following figure. Compare Firmware is to compare the current firmware version and the newly downloaded version. It can prove if the downloaded version is the newest one.

5.2.13.9 H/W Diagnostic

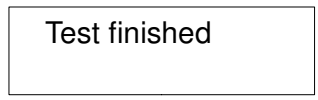
Now press **ESC** and ▼ to enter the following figure. H/W Diagnostic is to test the system



Press **ENT** to enter the next figure, and begin the LCD test. After that, the system will do the button test, self-test of SDRAM, the hardware connection test and flash test. All test results will be shown on LCD. It is the easiest way to know if the system can work well.

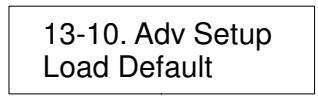


When all tests finishes, LCD will show the message as follows

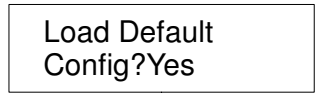


5.2.13.10 Load Default

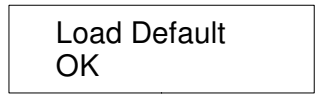
Now press **ESC** and ▼ to enter the following figure. Load Default is to make all changed settings return to defaults.



Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.



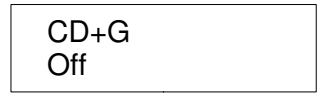
When default loading finishes, LCD will show the results as follows.



5..2.13.11 CD+G

Now press **ESC** and ▼ to enter the following figure. CD+G is a kind of special copying format. This function supports this special format.

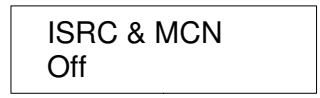
Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.



5.2.13.12 ISRC & MCN

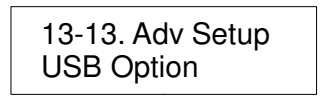
Now press **ESC** and ▼ to enter the following figure. ISRC and MCN are special copying formats. This function supports them.

Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

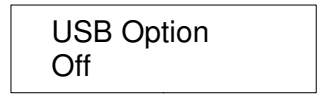


5.2.13.13 USB Option

Now press **ESC** and ▼ to enter the following figure. USB Option lets you switch to the USB mode if your copy controller has connected with a PC.



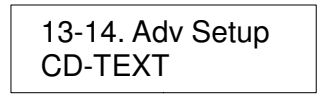
Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.



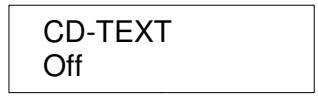
When USB option is On, the original “13. Adv Setup” will change to “14. Adv Setup”, and the hidden “12. USB Mode” will appear in the first layer of function menu.

5.2.13.14 CD-TEXT

Now press **ESC** and ▼ to enter the following figure. CD-TEXT is a kind of special copying format. This function supports this special format.

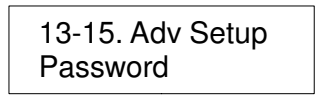


Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

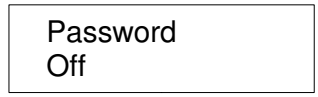


5.2.13.15 Password

Now press **ESC** and ▼ to enter the following figure. Password is set to protect your copy controller.

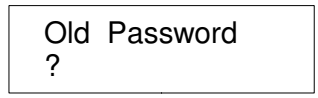


Press **ENT** to see the following figure. The default is Off.

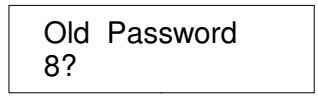


Press ▼ to see the following figure. Change means to change a preset or an old password into a new one.

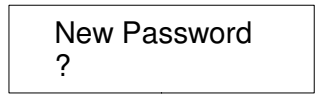
Press ▼ to see the following figure.



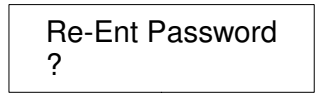
Use ▲ ▼ to key in the default, 85122290. A password should be composed of 1 to 13 characters. The character can be A, B, C, etc. or 1, 2, 3, etc. or the combination of both. After selecting a desired number or alphabet, remember to press **ENT**.



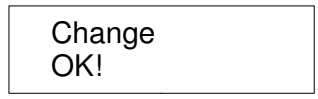
After keying in the old password, remember to press **ENT** to confirm. Then the following figure will appear.



Follow the rule mentioned above to key in a new password. After keying in, the system will ask you to enter the new password again.

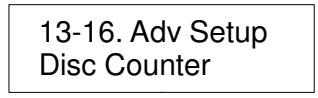


When it is correct, you will see the following figure. You have 3 chances to enter your password. If you forget your password, return the copy controller to ACARD for help.

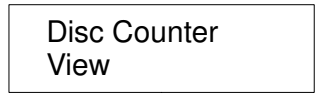


5.2.13.16 Disc Counter

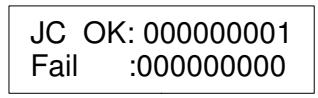
Now press **ESC** and ▼ to enter the following figure. Disc Counter records how many discs you have copied.



Press **ENT** to see the following figure. View means to see the records.

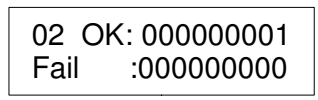


Press **ENT**. JC in the following figure means Job Counter; that is, every copying task. It records the number of discs you have copied, and can be deleted.

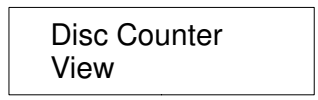


Attention
There is another record of LC (Life Counter). It also records the number of discs you have copied so far, but can not be deleted. You can veiw the record of LC by holding down **ESC** when LCD shows the finding of writers. Press ▲ to leave.

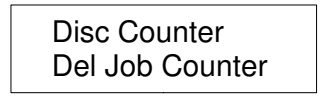
Press ▼. The following figure shows the record in DVD writer 2. You can press ▼ to see the records in other writers. This kind of record can be deleted, too.



Press ▲ to return to the record of job. Then press **ENT** to return to the next figure.



Press ▼ to see the following figure. It is to delete the record in job. Use ▲ ▼ to confirm Yes or No.

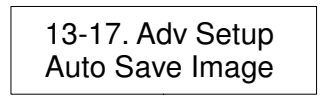


Press ▼ again to enter the following figure. Dev means the device of DVD writer.

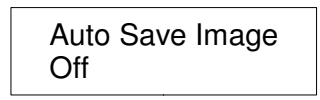
Press **ENT** to see the following figure. If you want to delete the record in DVD writer 2, you can press **ENT**, otherwise press **ESC** to exit.

5.2.13.17 Auto Save Image

Now press **ESC** and ▼ to enter the following figure. Auto Save Image can save an image file automatically into your designated partition of HDD.

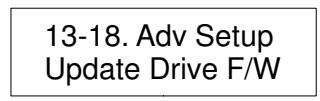


Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

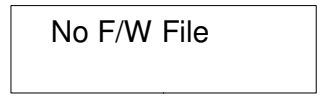


5.2.13.18 Update Drive F/W

Now press **ESC** and ▼ to enter the following figure. **Only when you have installed some types of CD\DVD drives produced by ASUS or Plextor can this figure appear.** This function lets you udpate the firmware of some ASUS or Plextor CD/DVD drives. For the detailed types, visit the Web site:**www.acard.com**.



Press **ENT** to enter the next figure. No F/W File means that there is no file of firmware on the source reader. So, in the beginning you have to download the firmware of a certain type of CD\DVD drive from the Web site of ASUS or Plextor. Then record the firmware into a CD-RW.



Chapter 6 Trouble shooting

6.1 About LCD

After you power up, if there is no display on the LCD, check if the connection of power cord is firm and the environment of power outlet is normal.

6.2 About Error Messages

During Copy, Test, Compare and Verify, etc. if you press **ESC** to abort, an error message will appear on LCD. Abortion may cause the copy controller to hang up,therefore you have to power on again.

If reading fails, an error message will appear on LCD. Get a new source DVD to try again.

If the copy controller hasn't detected any device after powering on, an error message will appear on LCD.

6.3 Compatible Flash Media

The following flash media have been tested and they function normally with the ARS-2030PC.
Memory Card Support :

CF slot : CF / MD (up to 16 GB)
SD solt : SD / SDHC (up to 32GB)
MS solt : MS / MS pro / MS duo / MS pro duo
SM slot : XD / XD-M / XD-H / SM

6.4 About DVD-ROM/DVD Writers

If a DVD-ROM or a DVD writer cannot read, confirm the format of the source DVD and check if it is damaged.

Use another DVD writer to read the source DVD. If it works, the DVD-ROM is probably defective or not compatible with the source DVD.

6.5 About Buttons

If you press any one of the four buttons on the panel, but there is no response, it is perhaps that the button cannot function well. Inspect the jumper setting.

6.6 About DVD Writer Not Readable

After copying if the DVD writer is not readable, use Compare to examine, or get another DVD-ROM to test.

6.7 About High Failure Rate

If the failure rate of copying is high, do the following things to improve.

- Lower the speed of DVD writer.
- Inspect if the blank disc's quality is good.
- Update the firmware.
- Inspect the DVD writer's maximum writing speed. If the speed is over 8X, copy the data to a hard disk first, and then transmit to DVD.

6.8 About Firmware Update

If you cannot update the firmware, please inspect the firmware. Perhaps you have downloaded a wrong file.

Failure in firmware update may cause the copy controller to fail in booting. Under the circumstances, return the control board to distributor for repair.

6.9 About Function 13 and Cancellation

If you want to execute function 13 Advanced Setup under DVD Copier Mode, you can press ESC for 2 seconds.

And during operation if you want to cancel a function like Copy, Test, Verify and so on, you can press ESC for 2 seconds, too.

Appendix A LCD Messages

1. Normal Conditions:

All data will be lost, erase?.....All data on the disc will be lost. Confirm the erasing of data.
Analyzing.....Analyze the source disc.
Audio Disc!!! Can't compare!..... The system cannot compare the audio discs.
Cannot read TOC..... The system cannot read the contents of disc.
Check Target Please Wait .....The system is checking the target device.
Detect Drives.....Detect what drives are connected with the system.
DVD-RW does not Support the Func..... .. DVD-RW doesn't support this function.
Erase Finished..... The erasing of data comes to an end.
Erasing disc.....The system is erasing the data on the disc.
Fail to get Drive Info!..... The drive information cannot be obtained.
Fail to get Src Disc Info!..... The information of source disc cannot be obtained.
Hold ESC to exit..... Press ESC for a second to terminate the test.
Identical..... The comparison results are the same.
Initialize SDRAM.....Initialize the memory of the system.
Load Default Config?.....Do you want to load the default settings?
No Erasable Disc in DVD-RW!!.....The disc on the DVD-RW device is not rewritable.
Preparing..... The system is preparing to record.
Press a Key to Eject Fail Disc.....Press any key to eject the failed disc after copying.
Press a Key to Eject Good Disc..... Press any ket to eject the good disc after copying.
Read disc error .....During comparison the disc cannot be read.
Save new config Fail!..... The new setting of configuration cannot be saved.
Source Disc Empty!!!..... The source disc doesn't contain any data.
Source Disc Not Ready..... Source disc is not ready to be read.
Source Drive Not Ready.....Source drive is not ready to read.
Src&Tgt can't in the same channel.....
.....During comparison the source and target discs cannot be in the same channel.
Target Disc Not Empty!!!..... The target disc still has data.
Target Disc Not Ready..... Target disc is not ready to be written into.
Target Drive Not Ready.....Target drive is not ready to write.
Target overflow..... The target disc hasn't enough capacity to store new data.
TOC not match..... The comparison results are not the same.
User Abort!.....Cancel the job during operation.

2. Connecting with a HDD:

All data will be lost, format?.....
.....All data on the hard disk will be lost. Confirm the formatting of hard disk.
Delete Image in Partition xx?.....Confirm the deleting of data image in partition xx.
Format HDD?..... Ask if you want to format the hard disk.
Format HDD OK! .....The Formatting of hard disk has been completed.
HDD not Format!.....The hard disk hasn't been formatted yet.
HDD too small ..... The capacity of hard disk is too small.
HDD too small to handle image!.....
.....The hard disk hasn't enough capacity to store the data image (at least 5Gbytes).
Image Exists Overwrite?.....
.....There is a data image in the current partition. Confirm the overwriting of data.
Image load Fail.....The image isn't successfully loaded from DVD to the hard disk.
Image load OK..... The image is successfully loaded from DVD to the hard disk

No Image in Partition xx.....There is no data image in partition xx.
No Valid HDD!..... The system cannot find a hard disk.
Partition Damage.....The partition is damaged.
Select HD First!..... Select a formatted hard disk at first.
Verify Disk or Partition?..... Do you want to verify the hard disk or just a partition?
Verify Hard Disk Fail!..... The hard disk is not verified successfully.

3. Audio Editing:

Burn or Move to partition?.....
.....Do you want to directly copy the data into disc or move them to the partition.
Can't edit HDD..... The hard disk cannot be edited as a source audio disc.
Close all disc's session?..... Confirm the closing of disc sessions.
Continue edit next Disc?..... Ask if you want to continue the music disc editing.
End edit disc and burn?..... Finish the music disc editing and start to copy.
Erase selected Tracks?..... Abort the selected tracks and delete them.
Ins empty disc Continue?..... Do you want to insert a blank disc and continue copying?
Insert next disc..... Insert the next audio disc.
NO AUDIO track in this disc..... The source disc has no audio track.
Sessions were closed already! ..... The disc sessions have already been closed.
Target Overflow Re-Select.....
.....The disc capacity is not enough to store the selected tracks. Please select again.
Tgt overflow, del last trk?..... The disc capacity is not enough to store the selected tracks. So, do you want to delete the last track?

4. Firmware Update:

Check Sum Error!..... The udpated firmware has errors.
Flash ROM fail!..... Data cannot be written into Flash ROM.
Invalid firmware ..... The disc doesn't contain a valid firmware.
Last update F/W Fail!..... The firmware is not updated successfully.
Last update F/W OK!..... The firmware is updated successfully.
Searching F/W ..... The system is searching for a valid firmware.
Source can't be Hard Disk!.....During comparison the source cannot be hard disk.

Technical Support Form

Email address: support@acard.com
Website: http://www.acard.com

Model Name*	ARS-2030PC	**Firmware version***	
System Configuration			
Card Reader model*			
Motherboard/System model*			
SCSI host adapter/chip brand & model*			
SCSI host BIOS version			
Other I/O card*			
Operating System*			
SATA HDD brand & model*			
SATA HDD capacity			
SATA HDD firmware			
Problem description*			